

ASSIGNMENT-3

Assignment Date	9 October 2022
Student Name	Vaishnavi.L
Student Roll Number	311419106033
Maximum Marks	2 Marks

QUESTION-1:

Write a python code for blinking LED and traffic lights for Raspberry pi.

Aim:

To write a python code to blink a led and traffic lights for raspberry pi.

Code:

```
import RPi.GPIO as GPIO
import time

LED_PIN = 17

GPIO.setmode(GPIO.BCM)

GPIO.setup(LED_PIN, GPIO.OUT)

while True:

    GPIO.output(LED_PIN, GPIO.HIGH)

    time.sleep(1)

    GPIO.output(LED_PIN, GPIO.LOW)

    time.sleep(1)

GPIO.cleanup()
```

Code:

```
from gpizero import Button, TrafficLights , Buzzer
```

```
from time import sleep button=button(21)
```

```
lights=Trafficlights(25,8,7) buzzer=Buzzer(15)
```

```
while True:
```

```
    button wait_for_press()
```

```
lights.green.on()    sleep(1)
```

```
lights.amber.on()    sleep(1)
```

```
lights.red.on()    sleep(1)
```

Result :

Thus the code to blink led and traffic lights verified and executed successfully.